

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 62-269212

(43)Date of publication of application : 21.11.1987

(51)Int.Cl.

G05D 23/00
F16K 31/64
F24D 17/00

(21)Application number : 61-113908

(71)Applicant : MATSUSHITA ELECTRIC IND
CO LTD

(22)Date of filing : 19.05.1986

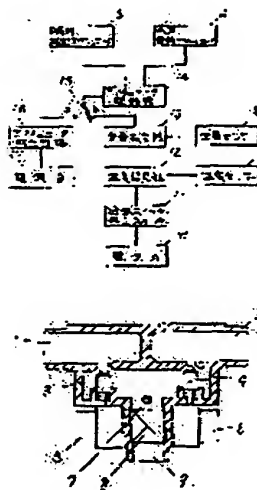
(72)Inventor : OKADA MAKOTO
HIRATA KATSUMI

(54) MOTOR-DRIVEN MIXING PLUG

(57)Abstract:

PURPOSE: To prevent danger of a scald caused by gushing-out of hot water being in a no- controlled state, and running-out of hot water of a heat source equipment, by adding the second control system which is operated by another power source at the time of service interruption, and closes both a motor-driven actuator for hot water and a water motor-driven actuator for water, to a control system of a motor-driven mixing plug.

CONSTITUTION: At the time of a state that hot water is flowing forth, when the voltage of a power source A10 has been lost due to service interruption, a switch 15 is switched from a contact point (b) to a contact point (a) by a service interruption signal of the power source A10, and by a power source B17 such as a battery, etc., which has been separated from a commercial power source, an actuator closing circuit 16 is operated. Subsequently, a motor-driven actuator 5 and 6 are driven more slowly than that of a structure which is returned by force of a spring, through an actuator driving circuit 14, and valve bodies 3, 4 are closed without being subjected to a fault of a water hammer, etc. When the commercial power source has been restored again, the switch 15 is returned to the contact point (b) again by a signal of the power source A10, but in accordance with a service interruption restoration mode of the first control system, in general, a hot water



flowing-forth switch and a stop switch 11 are set to a stop, a temperature setting part 12 is set to a safe temperature, and the re-operation is executed.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2000 Japan Patent Office